alhua TECHNOLOGY

DH-IPC-HDBW71242H-Z
12MP IR Dome WizMind Network Camera

ePoE Wiz Mind

· 12MP 1/1.7" CMOS image sensor, high image definition

· Outputs max. 12MP (4000 × 3000) @25/30 fps

· H.265 codec, high compression rate, ultra-low bit rate

· Built-in IR LED, max. IR distance: 40 m

· Rotation mode, DWDR, 3D DNR, HLC, BLC, digital watermarking

· ROI, SVC, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments

· Perimeter Protection , Face Detection , Video Metadata , ANPR , People Counting , Queue Management

· Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS-485; BNC; supports max. 256 G SD card

· 24V AC/12V DC/PoE power supply; 12V DC power output, max. current 165mA; easy for installation.

· IP67, IK10 protection

· Five streams for three-channel HD video

| 12Mp | People counting | Queue Management | ANPR | Face Detection | Video Metadata |

Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

With advanced deep learning algorithm, Dahua WizMind 7 Series network camera supports various intelligent functions and satisfies the requirements in different scenes. The camera can accurately recognize person, vehicle, and non-motor vehicle, face, ANPR, and liveness. This series camera has ultra starlight night version effect, and works with ultra-low stream. It supports dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

Functions

Video Metadata
With deep learning algorithm, Dahua Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

Face Detection
Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

ANPR
With high-performance GPU chip, deep learning algorithm, and lots of sample training learning, Dahua ANPR technology can automatically collect and recognize the vehicle information, including license plate, logo, vehicle type, and vehicle color.

Perimeter Protection
With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

People Counting
With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/weekly/daily reports to meet your requirements.

Queue Management
With advanced image processing technology and deep leaning algorithm, Dahua Queue Management technology counts people quantity in selected area in real time to realize queue management. It supports multiple polygon areas. When No. in area/strand time is not smaller or not larger than the threshold, it triggers alarm.

Smart H.265+ & Smart H.264+
With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Onvif

Technical Specification

Camera

Image Sensor	1/1.7"12Megapixel progressive CMOS
Max. Resolution	4000 (H) × 3000 (V)
ROM	4 GB
RAM	2 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.01 Lux @F1.8
S/N Ratio	>56 dB
Illumination Distance	40m (131.2 ft) (IR LED)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	3 (IR LEDs)
Pan/Tilt/Rotation Range	Pan: 0°–355° Tilt: 0°–80° Rotation: 0°–355°

Lens

Lens Type	Motorized vari-focal
Mount Type	φ14
Focal Length	2.7 mm-12 mm
Max. Aperture	F1.8
Field of View	Horizontal: 103°–44° Vertical: 75°–33° Diagonal: 135°–55°
Iris Type	Auto
Close Focus Distance	1.2 m (3.9 ft)

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	97 m (318.2 ft)	38 m (124.7 ft)	19 m (62.3 ft)	9 m (29.5 ft)
	T	205 m (672.6 ft)	82 m (269.0 ft)	41 m (134.5 ft)	20 m (65.6 ft)

Smart event

IVS	Abandoned object; missing object

Professional, intelligent

IVS (Perimeter Protection)	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection
Face Detection	Face detection; track; optimization; snapshot; face enhancement; face exposure; face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses, expressions (anger, calm, happiness, sadness, disgust, surprise, confusion and fear), mask, beard; face matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time setting
People Counting	Support tripwire number counting, people counting in area, and displaying and outputting yearly/monthly/daily reports. Support queue management, and displaying and outputting monthly/daily reports. Support 4 tripwire rules configuration, people counting in 4 areas, and 4 queue management functions.
Video Metadata	Vehicle detection, non-motor vehicle detection, face detection, human body detection, track, optimization, snapshot, report high quality picture, vehicle attributes (license plate, vehicle type, vehicle color, and vehicle brand), other attributes (sun visor, seatbelt, smoking, phoning, in-car accessories, and annual vehicle inspection mark), non-motor vehicle attributes (vehicle type, vehicle color, hat, driver number, cloth type, and cloth color), personnel attribute (cloth type, trousers type, cloth color, trousers color, knapsack, hat, gender and umbrella), face attribute (gender, age, expression, glasses, mask, and beard)
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.

Video

Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)
Smart Codec	Smart H.264+ Smart H.265+
Video Frame Rate	Main stream: 4000 × 3000 @1-25/30 fps Sub stream: 704 × 576 @1-25 fps; 704 × 480 @1-30 fps Third stream: 1920 × 1080 @1-25/30 fps Fourth stream: 1920 × 1080 @1-25/30 fps Fifth stream: 704 × 576 @1-25 fps; 704 × 480 @1-30 fps
Stream Capability	5 streams
Resolution	12M (4000 × 3000); 8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728); 5M (2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536); 3M (2304 × 1296); 2M (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); VGA (640 × 480)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 kbps–16384 kbps H.265: 32 kbps–14080 kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
HLC	Yes
DWDR	Yes
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Defog	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)
Mirror	Yes
Privacy Masking	4 areas

Audio

Audio Compression	G.711A; G.711Mu; G.726; AAC; G.723

Alarm

Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; defocus detection; external alarm; face detection; video metadata; ANPR; people counting in area; stay alarm; people counting; people counting exception detection; queue management;safety exception

Network

Network	RJ-45 (10/100/1000 Base-T)
SDK and API	Yes
Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P;RTMP
User/Host	20 (Total bandwidth: 12 M)
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS;Dahua Cloud
Browser	IE: IE9 and later Chrome: Chrome 42 and later Firefox: Firefox 48.0.2 and later
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS; Android

Certification

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07

Port

RS-485	1 (baud rate range: 1200 bps–115200 bps)
Audio Input	1 channel (3-pin terminal with 2.54mm clearance; with audio cable)
Audio Output	1 channel (3-pin terminal with 2.54mm clearance; with audio cable)
Alarm Input	3 channels in: 5mA 3V–5V DC
Alarm Output	2 channels out: 1,000mA 30V DC/500mA 50V DC

Power

Power Supply	12V DC/24V AC/POE+(802.3at)
Power Consumption	<17.9W

Environment

Operating Conditions	−40°C to +60°C (−40°F to +140°F) /Less than 95% RH
Storage Conditions	−40°C to +60°C (−40°F to +140°F)
Protection Grade	IP67; IK10

Structure

Casing	Metal + plastic
Dimensions	129.1 mm × Φ157.9 mm (5.08" × Φ6.22")
Net Weight	1500 g (3.31 lb)
Gross Weight	1600 g (3.53 lb)

Ordering Information

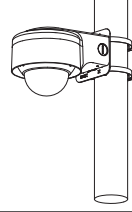| Type	Part Number	Description
12MP Camera	DH-IPC-HDBW71242HP-Z-2712-DC12AC24V	12MP WizMind 7 Series IR Dome Network Camera, PAL
	DH-IPC-HDBW71242HN-Z-2712-DC12AC24V	12MP WizMind 7 Series IR Dome Network Camera, NTSC
	IPC-HDBW71242HP-Z-2712-DC12AC24V	12MP WizMind 7 Series IR Dome Network Camera, PAL
	IPC-HDBW71242HN-Z-2712-DC12AC24V	12MP WizMind 7 Series IR Dome Network Camera, NTSC
Accessories (optional)	PFA773	Wall Mount
	PFB300C	Ceiling Mount
	PFA152-E	Pole Mount

Accessories

Optional:
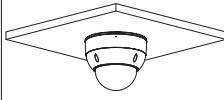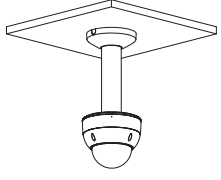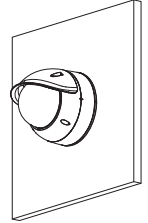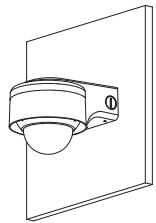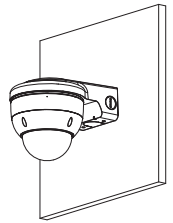
PFA773
Wall Mount

PFB300C
Ceiling Mount

PFA152-E
Pole Mount

Ceiling Mount	Ceiling Mount	Pole Mount
	PFB300C+PFA101	PFB210W+PFA152-E
Wall Mount	Wall Mount	Wall Mount
PFA773	PFB210W(OUTDOOR)	PFB210W(INDOOR)

Dimensions (mm/inch)

74.5 [2.93]

129.1 [5.08]

∅157.9 [∅6.22]

4-∅4.7 [∅0.19]

∅142.0 [∅5.59]

∅142.0 [∅5.59]

∅140.0 [∅5.51]

4-∅3.7 [∅0.15]

3-∅4.5 [∅0.18]

JUNCTION
MOUNTING HOLE DESCRIP
A———4 SQUARE
B-ROUND+OCTAGON
C———SINGLE GANG
D———DOUBLE GANG
TOP